

Analog Devices Welcomes Hittite Microwave Corporation

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**500/1000/2000W
 C-BAND PULSED AMPLIFIER**

This product data sheet does not contain ITAR-controlled technical data because the information is basic marketing information and general system descriptions that do not meet the ITAR definition of technical data.

Typical Applications

- Commercial Radar
- Military Radar
- Electronic Warfare
- Test Equipment

**Solid State
 Microwave Power Modules**



Features

- Highest Power
- Smallest Footprint
- Lightest Weight

General Description

High power in a small package, our Dodecahedron package (DDH) is designed to pack a considerable amount of power in a small footprint plus cover a wide bandwidth. Only 2.3" x 2.5" dia., these DDHs are modular so that they can be combined. One DDH will provide 500W, two DDHs will provide 1000W and four DDHs will provide 2000W pulsed output in the C-band.

Table 1. Specifications

Input Power	
DC Power	48 VDC (28V opt)
Efficiency	22.5%
Output Specifications [@ 25° C]	
Frequency Range	6.0 -8.0 GHz
Power Output (Saturated)	500/1000/2000 W [1 / 2 / 4 DDHs]
Rise / Fall Time	200 nsec Max
Pulse Width	.05 to 100 msec
Duty Cycle	20 %
In/Out VSWR	1.5:1
Out of Band Spurious Noise	-70.0 dBc Max
2nd Harmonic	-40.0 dBc Max
Connectors	
RF Input	SMA Female
RF Output	"N" Female
Mechanical	
Compact Aluminum or Copper Chassis Chassis Grounded Conduction Cooling (heatsinks and fans optional)	
Environmental	
Operating Temperature	-20° to 75° C
Storage Temperature	-40° to 50° C
Relative Humidity	5% to 95% non-condensing
MTBF	
200,000 hours	

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